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# **WATER SUPPLY OUTLOOK FOR UTAH**

Prepared by

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS**

In cooperation with U.S. Forest Service, Bureau of Reclamation, Utah Fish and Game Dept., Utah State University, U.S. National Park Service, U.S. Geological Survey, and other Federal, State, and private organizations.

AS OF  
**MAR. 1, 1973**

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR UTAH**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

**KENNETH E. GRANT**

ADMINISTRATOR  
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STATE CONSERVATIONIST  
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STATE ENGINEER  
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UTAH STATE DEPT. OF NATURAL RESOURCES



*Report prepared by*

**BOB L. WHALEY, Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
SNOW SURVEY SECTION  
FEDERAL BLDG., ROOM 4012  
SALT LAKE CITY, UTAH 84111



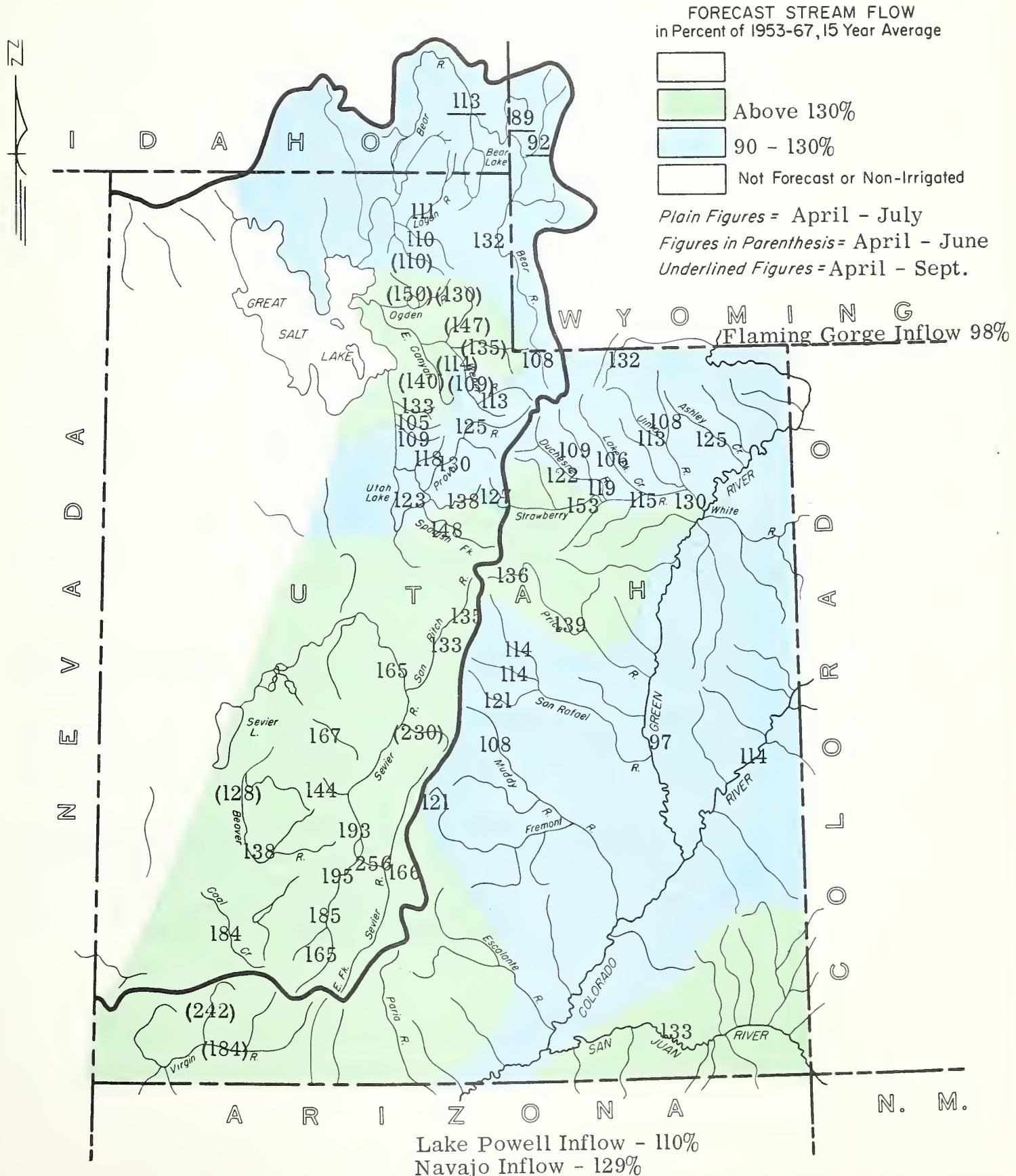
# PROSPECTIVE WATER SUPPLIES

## Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

March 1, 1973

**Approximate Date**

A horizontal scale bar with tick marks every 10 units. The labels are 0, 50, and 100. Below the bar, the text "SCALE IN MILES" is centered.





# WATER SUPPLY OUTLOOK

as of

MARCH 1, 1973

\*  
\* Utah's 1973 Water Supply Outlook ranges from "near average" \*  
\* in the north to "excellent" in the south. Snow cover varies\*  
\* from 70% on the Lower Bear to more than twice average on the\*  
\* Virgin, Upper Sevier and Coal Creeks in southern Utah. \*  
\* Reservoir storage is 133% of average. Streamflow forecasts \*  
\* range from 90% of average on the Bear to 256% of average on \*  
\* the East Fork of the Sevier.  
\* \*

Snow Cover ranges from about 70% of average on the Logan and Smith's Forks of the Bear River to better than twice average on the Virgin and Sevier Rivers. Extreme southwestern Utah above Enterprise Reservoir has a snow pack almost four times the March 1 average. Long Valley Junction at the head of the Sevier and Virgin Rivers had a March 1 measurement almost five times its average for the 1953-67 period.

Low elevation snow is still much heavier than usual in southern Utah and the Uintah Basin where below average temperatures have reduced the usual melt. The Oquirrh Mountains have much heavier than average March 1 snow cover.

Reservoir Storage in 17 of Utah's principal irrigation structures now averages 133% of the March 1 average although 4% less than a year ago.

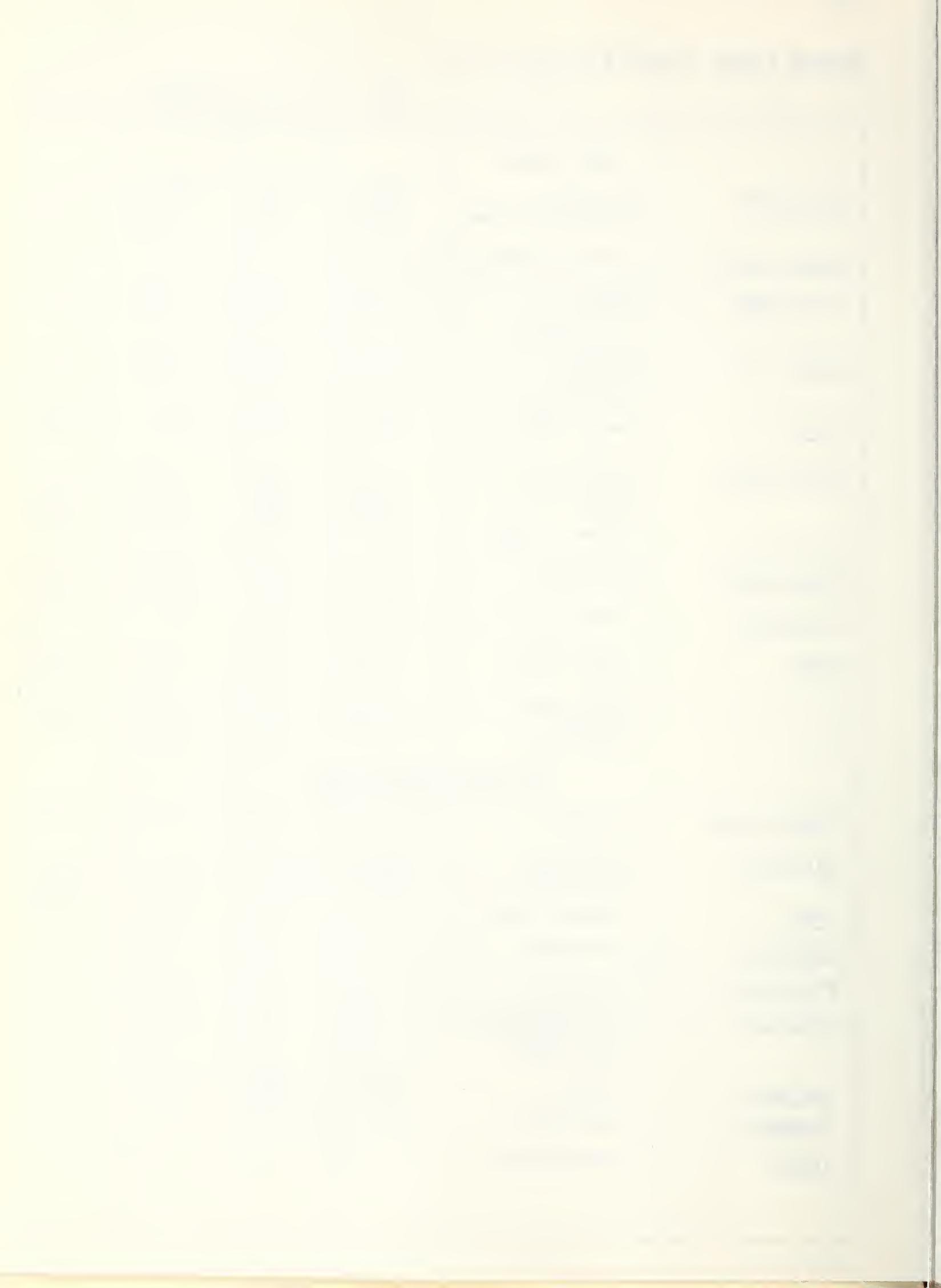
The Great Salt Lake rose 0.4 foot during February and is now 4199.45 feet above mean sea-level, 0.65 foot higher than a year ago and 8.10 feet above the all time record low of October 1963.

Streamflow Forecasts range from 10% below average on the Smith's Fork and Thomas Fork of the Bear River to better than 200% of average on the East Fork of Sevier, Salina Creek and the Santa Clara River. Virgin River and Coal Creek forecasts are 184% of average. Sevier River forecasts range from 164% at Hatch to 195% of average at Kingston.



## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

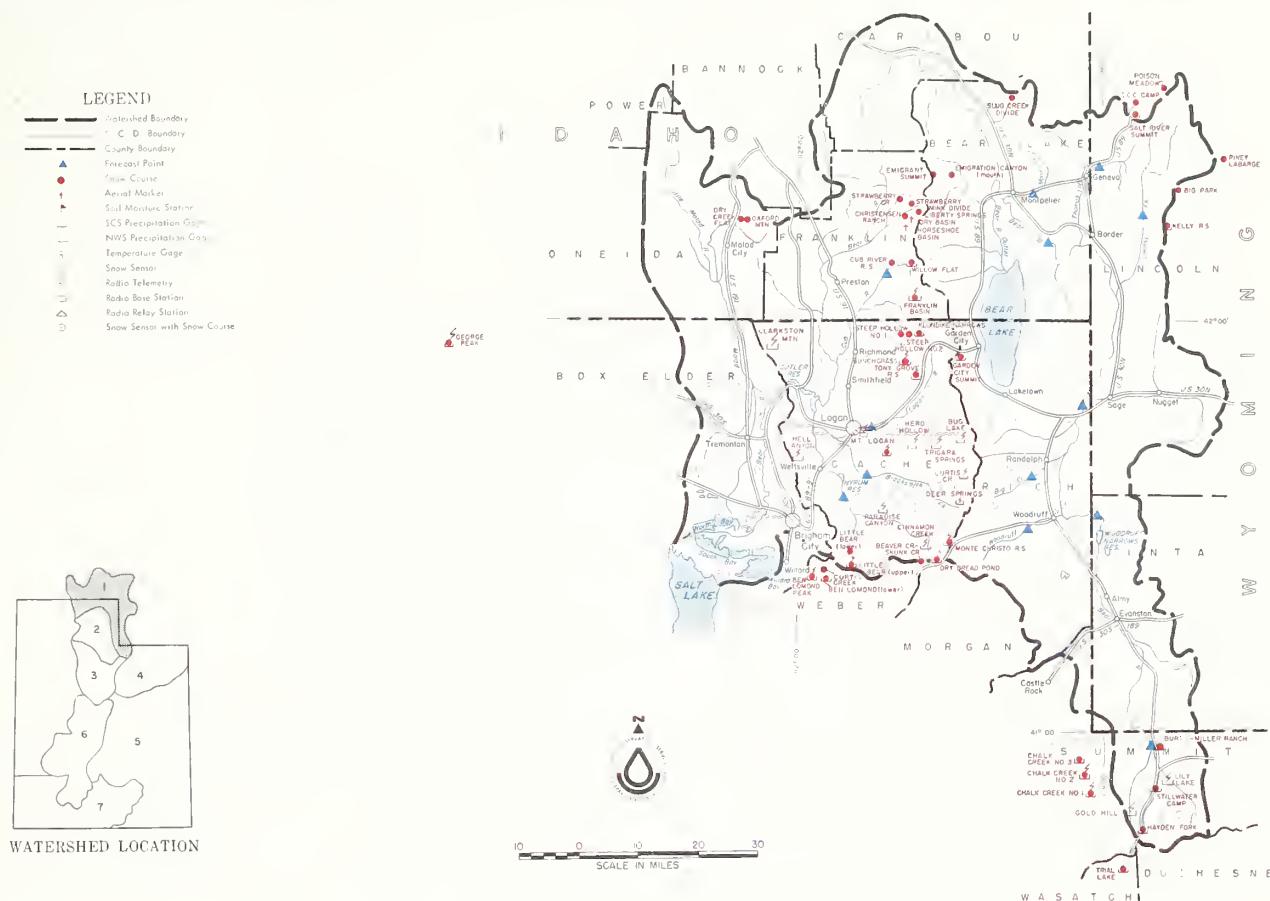
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
<u>GREAT BASIN</u>					
<u>Bear River</u>	Bear Lake	1421.0	1089.6	1081.3	871.4
	Woodruff Narrows	26.5	25.3	26.5	17.8b
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	10.5	15.4	10.6
<u>Little Bear</u>	Hyrum	15.3	10.6	10.8	11.0
	Porcupine	11.3	3.5	3.2	--
<u>Ogden</u>	Causey	7.1	2.4	0.6	--
	Pineview	110.1	33.7	66.8	26.9
<u>Provo</u>	Deer Creek	149.7	106.0	107.5	89.3
<u>Sevier River</u>	Gunnison	18.2	10.1	18.2	--
	Otter Creek	52.5	28.2	35.0	23.0
	Piute	71.8	46.5	61.0	35.4
	Sevier Bridge	236.0	128.8	173.6	80.7
<u>Spanish Fork</u>	Strawberry	270.0	182.0	198.2	120.0
<u>Utah Lake</u>	Utah Lake	883.9	786.5	829.2	558.4
<u>Weber</u>	East Canyon	48.1	40.0	37.5	11.2
	Echo	73.9	57.2	55.5	35.7
	Lost Creek	20.0	15.2	14.6	--
	Rockport	60.9	21.5	26.2	23.8
	Willard Bay	193.3	161.8	171.8	--
<u>COLORADO RIVER DRAINAGE</u>					
<u>Ashley Creek</u>	Steinaker	33.3	27.3	24.2	16.8
<u>Colorado</u>	Blue Mesa	829.5	315.0	--	--
	Lake Powell	25002.0	12217.0	13112.0	5138.0
<u>Green</u>	Flaming Gorge	3749.0	2875.0	2562.0	1248.0b
<u>Lake Fork</u>	Moon Lake	35.8	17.9	17.4	15.7
<u>Price River</u>	Scofield	65.8	23.2	41.5	21.5
<u>San Rafael</u>	Huntington North	3.9	3.2	--	--
	Joe's Valley	54.6	36.1	39.1	--
	Mill Site	16.7	4.1	4.5	--
<u>San Juan</u>	Navajo	1696.4	888.2	875.1	--
<u>Strawberry</u>	Starvation	165.3	129.3	129.5	--
<u>Uintah</u>	Bottle Hollow	11.3	10.5	9.0	--



# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



MARCH 1, 1973

### THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is 89% of average on the Upper Bear River and 98% of the March 1 average on the Lower Bear Basin.

PRECIPITATION at mountain stations was below average at all stations except Klondike Narrows (124%) during February.

SOIL MOISTURE is near average to above average.

RESERVOIR STORAGE is above average in Bear Lake and Woodruff Narrows and near average in Hyrum and Porcupine Reservoirs.

STREAMFLOW FORECASTS range from 91% of average on Thomas Fork to 132% for the Bear at Randolph.

Report prepared by  
BOB L. WHALEY

**U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE**  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

MARCH 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year
<u>BEAR RIVER SYSTEM</u>				
Bear at Harer, Idaho (1)	255	113	Apr-Sept	226
Bear nr Randolph	97	132	Apr-July	73
Bear nr Ut-Wyo. State Line	115	108	Apr-July	106
Bear nr Woodruff	125	120	Apr-July	104
Big Crk nr Randolph, Utah	5.5	115	Apr-July	4.8
Blacksmith Fork nr Hyrum	46	110	Apr-July	42
Little Bear nr Paradise	46	110	Apr-June	42
Logan nr Logan (1)	110	111	Apr-July	99
Smith's Fork nr Border, Wyoming	99	92	Apr-Sept	108
Thomas Fork nr Ut-Wyo State Line	28	91	Apr-Sept	31
Woodruff Crk nr Woodruff, Utah	15.0	111	Apr-July	13.5

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
<u>Bear River</u>	Bear Lake	1421.0	1089.6	1081.3	871.4
	Woodruff Narrows	26.5	25.3	26.5	17.8b
<u>Little Bear</u>	Hyrum	15.3	10.6	10.8	11.7
	Porcupine	11.3	3.5	3.2	- -

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Big Creek near Randolph	40 - 80	43
Logan River near Logan	700 - 1000	911
Woodruff Creek near Woodruff	200 - 360	220

- (1) - Observed flow corrected for change in storage and diversions
- (3) - Data obtained by radio - USU-SCS cooperative sites
- b - Average of all past records within the 15-yr period, but less than 15 years.
- x - Adjacent drainage
- \* - Partly estimated

## BEAR RIVER BASIN

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
UPPER BEAR RIVER (Above Harer, Idaho)						
Big Park x	8700	2/23	44	11.9	24.3	16.8
CCC Camp x	7500	2/27	32	8.3	15.8	10.2
Chalk Creek #1 x	9100	2/23	61	17.8	22.2	17.7*
Chalk Creek #2 x	7900	2/23	44	11.7	15.2	11.1
Chalk Creek #3 x	7500	2/23	31	7.0	9.0	6.1
Kelly Ranger Station	8200	2/23	43	11.7	22.6	15.2*
Monte Cristo R. S.	8960	2/26	54	19.5	31.7	20.2*
Piney LaBarge #2	8820	2/24	49	14.8	29.5	- -
Poison Meadows x	8500	2/24	63	18.1	36.4	24.4*
Salt River Summit x	7900	2/27	41	12.0	21.4	13.3
Smith & Morehouse x	7600	2/26	37	10.1	14.3	10.1
Trial Lake x	9800	2/28	67	19.6	27.9	20.7
LaBarge G. S.	9500	2/24	64	19.2	37.2	- -
LOWER BEAR RIVER (Below Harer, Idaho)						
Beaver Creek-Skunk Creek	7150	2/26	38	12.2	15.6	9.6
Christensen Ranch	5600	2/28	33	8.4	7.6	7.3*
Cub River R. S.	5400	2/28	29	7.3	8.5	7.5*
Dry Bread Pond x	8230	2/26	45	15.3	21.0	14.3
Dry Creek Flat	6350	2/27	34	11.4	10.1	6.2*
Emigration Canyon	6500	2/26	34	8.6	14.7	8.6*
Emigrant Summit	7350	2/26	60	17.8	28.7	19.2*
Garden City Summit	7600	2/22	42	10.8	21.8	15.1
Klondike Narrows	7400	2/22	46	12.6	23.0	16.7b
Little Bear (lower)	6000	2/23	45	13.0	11.4	7.6b
Little Bear (upper)	6550	2/23	48	13.9	15.6	9.4b
Monte Cristo R. S.	8960	2/26	54	19.5	31.7	20.2*
Oxford Mountain	6800	2/27	33	9.6	12.9	8.0*
Slug Creek Divide	7225	2/24	41	13.4	19.0	13.1*
Steep Hollow #1	8500	2/22	68	21.4	37.7	29.4b
Steep Hollow #2	7700	2/22	55	15.9	29.0	22.4b
Strawberry Creek	5800	2/28	36	10.9	11.9	9.3*
Strawberry Mink Divide	6800	2/28	56	18.0	25.9	17.2*
Tony Grove R. S.	6250	2/22	30	7.5	16.8	9.5
Willow Flat	6100	2/27	41	11.6	16.9	12.7*
Liberty Spring	8600	2/28	76	25.6	43.4	- -
Dry Basin A	7900	Delayed				- -
Horseshoe Basin A	8000	Delayed				- -

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ED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
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COOPERATIVE SNOW SURVEYS

FUNDS FOR THE BASIC DATA

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IRRIGATION, INDUSTRY

POWER, HYDRO-ELECTRIC POWER

WATER SUPPLY FOR IRRIGATION

IRRIGATION, INDUSTRY

WATER SUPPLY FOR IRRIGATION

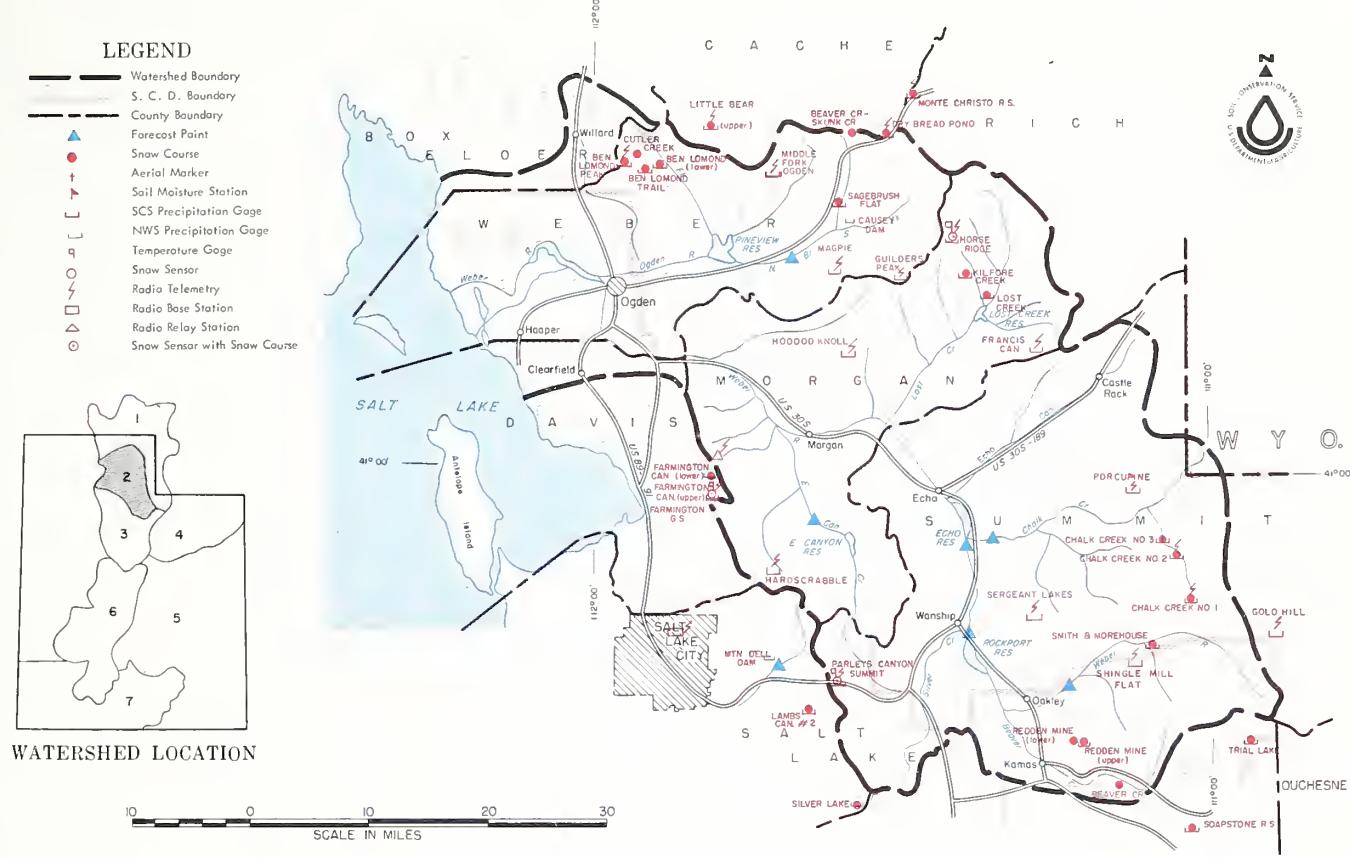
## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>BEAR RIVER</u>							
Bug Lake (3)	7950	2/25	1.77	- -	14.00	- -	- -
Cinnamon Crk. (3)	7300	2/25	2.56	- -	13.74	- -	- -
Clarkston (3)	6300	2/25	3.20	- -	16.58	- -	- -
Curtis Creek (3)	8450	2/25	2.32	- -	16.97	- -	- -
Deer Springs (3)	8450	2/25	2.39	- -	17.93	- -	- -
Dry Bread Pond	8230	2/26	2.85	4.47	18.31	16.22	113
Franklin Basin (3)	8000	2/25	2.93	- -	19.00	- -	- -
Garden City Summit	7600	2/22	2.00	3.22*	11.21	14.74	76
George Peak (3)	8800	2/25	2.35	- -	16.39	- -	- -
Gold Hills (3)	10000	2/25	2.41	- -	18.67	- -	- -
Herd Hollow (3)	7350	2/25	1.99	- -	12.77	- -	- -
Kelly R. S.	8200	2/23	1.80	- -	12.50	- -	- -
Klondike Narrows	7400	2/25	6.50	5.24b	27.35	19.39	141
Lily Lake (3)	9300	2/25	1.19	- -	13.02	- -	- -
Little Bear (upper)	6850	2/25	3.98	- -	21.64	15.36	141
Monte Cristo #2	8960	2/26	3.06	4.94b	17.86	19.68	91
Sagebrush Flat x	6300	2/26	2.42	2.48b	13.12	10.76	122
Salt River Summit	7900	2/27	2.35	3.51b	12.90	12.98	99
Tony Grove R. S.	6250	2/25	1.97	- -	11.80	- -	- -
Tony Grove Lake (3)	8400	2/25	3.43	- -	21.57	- -	- -
Trial Lake x	9800	2/28	4.33	4.47	23.24	17.36	134
Trigara Springs (3)	7200	2/25	2.25	- -	15.70	- -	- -
Willow Flat	6100	2/27	2.70	4.72*	16.51	17.52	94
(3) - Data obtained by radio - USU-SCS Cooperative Sites							
x - Adjacent Drainage							
b - Average of all past record - less than 15 years							
* - Partly estimated							

# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS**



MARCH 1, 1973

### THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is 139% of the March 1 average on the Ogden River but 12% less than last year. Weber River snow cover is 108% of average and 22% less than last year.

PRECIPITATION during February varied from about 60% of average at Monte Cristo, Dry Bread Pond, Chalk Creek #3 to about 150% at Ben Lomond Lower.

WATERSHED SOILS are well primed.

RESERVOIR STORAGE is near average to above average although Rockport and Willard Bay have less storage than last March 1.

STREAMFLOW FORECASTS for the April-June period have been reduced and now vary from 109% of average for Rockport Inflow to 150% of average for Pineview Inflow.

Report prepared by  
BOB L. WHALEY

**U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111**

MARCH 1, 1973

## STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average +
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk at Coalville	35	135	Apr-June	26	
East Canyon Crk nr Morgan (1)	24	140	Apr-June	31	17.2
Hardscrabble Crk nr Porterville	18	133	Apr-June		13.5
Lost Crk nr Croydon, Utah	17	147	Apr-June	33	11.6
Pineview Reservoir Inflow (2)	135	150	Apr-June	136	90
South Fork Ogden nr Huntsville	60	130	Apr-June		46
Rockport Reservoir Inflow (1)	120	109	Apr-June		110
Weber nr Coalville (1)	114	114	Apr-June		100
Weber nr Oakley	105	113	Apr-June	115	93

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Lost Creek near Croydon	240 - 320	171
So Fork Ogden nr Huntsville	750 - 900	643

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
<u>Ogden</u>	Causey	7.1	2.4	0.6	- -
	Pineview	110.1	33.7	66.8	26.9
<u>Weber</u>	East Canyon	48.1	40.0	37.5	11.2
	Echo	73.9	57.2	55.5	35.7
	Lost Creek	20.0	15.2	14.6	- -
	Rockport	60.9	21.5	26.2	23.8
	Willard Bay	193.3	161.8	171.8	- -
(1) - Observed flow corrected for change in storage and diversions.					
(2) - Inflow record as computed by U.S. Bureau of Reclamation					
b - Average of all past records within the 15-year period, but less than 15 years.					
x - Adjacent drainage					
** - Snow pillow reading cooperatively by Park City Resort					
* - Partly estimated					
a - Data obtained by radio - USU-SCS cooperative sites					

## WEBER-OGDEN WATERSHEDS

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>OGDEN RIVER</u>						
Beaver Crk-Skunk Creek	7150	2/26	38	12.2	15.6	9.6
Ben Lomond (lower)	6000	2/27	61	18.9	17.7	11.4b
Ben Lomond Peak	8000	2/27	106	37.6	38.0	26.2b
Ben Lomond Trail	6000	2/27	68	21.9	21.5	11.3b
Cutler Creek	6780	2/27	92	31.1	32.7	20.0b
Dry Bread Pond	8230	2/26	45	15.3	21.0	14.3
Monte Cristo R. S.	8960	2/26	54	19.5	31.7	20.2*
Sagebrush Flat	6300	2/26	22	6.2	7.0	4.0
<u>WEBER RIVER</u>						
Beaver Creek R. S.	7500	2/28	28	7.9	8.4	7.3
Chalk Creek #1	9100	2/23	61	17.8	22.2	17.7*
Chalk Creek #2	7900	2/23	44	11.7	15.2	11.1
Chalk Creek #3	7500	2/23	31	7.0	9.0	6.3
Farmington Canyon (lower) x	6950	3/1	--	19.3*	23.2	16.9
Farmington Canyon (upper) x	8000	3/1	--	26.8*	36.7	20.9
Horse Ridge	8260	2/28	47	15.4	30.4	- -
Kilfore Creek	7300	2/28	39	11.2	19.3	- -
Lamb's Canyon #1 x	6600	3/1	44	13.4	17.3	11.6
Lamb's Canyon #2 x	7400	3/1	44	13.0	18.1	- -
Park City Smt.	9300	3/2	83	23.1	43.2	- -
Parley's Canyon Smt.	7500	2/27	51	14.9	20.2	14.2
Redden Mine (lower)	8500	2/27	49	14.6	17.8	13.9
Redden Mine (upper)	9000	2/27	52	16.4	20.4	15.5
Silver Lake x	8725	2/28	59	19.8	23.2	18.9
Smith & Morehouse	7600	2/26	37	10.1	14.3	10.1
Trial Lake x	9800	2/28	67	19.6	27.9	20.7
Lost Creek Reservoir	6125	Not Measured		--	9.8	- -

# FIRST GLASS MAIL



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OFFICIAL BUSINESS

FEDERAL

STATE - PRIVATE

SOIL CONSERVATION SERVICE  
STATES DEPARTMENT OF AGRICULTURE

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Soil Lake City, Utah 84111

Water Supply for Irrigation,

Domestic and Municipal Water

Supply, Hydro-electric Power

Navigation and Industry

Utilities the Best Diet

WATER IS THE WEST'S GREATEST RESOURCE.

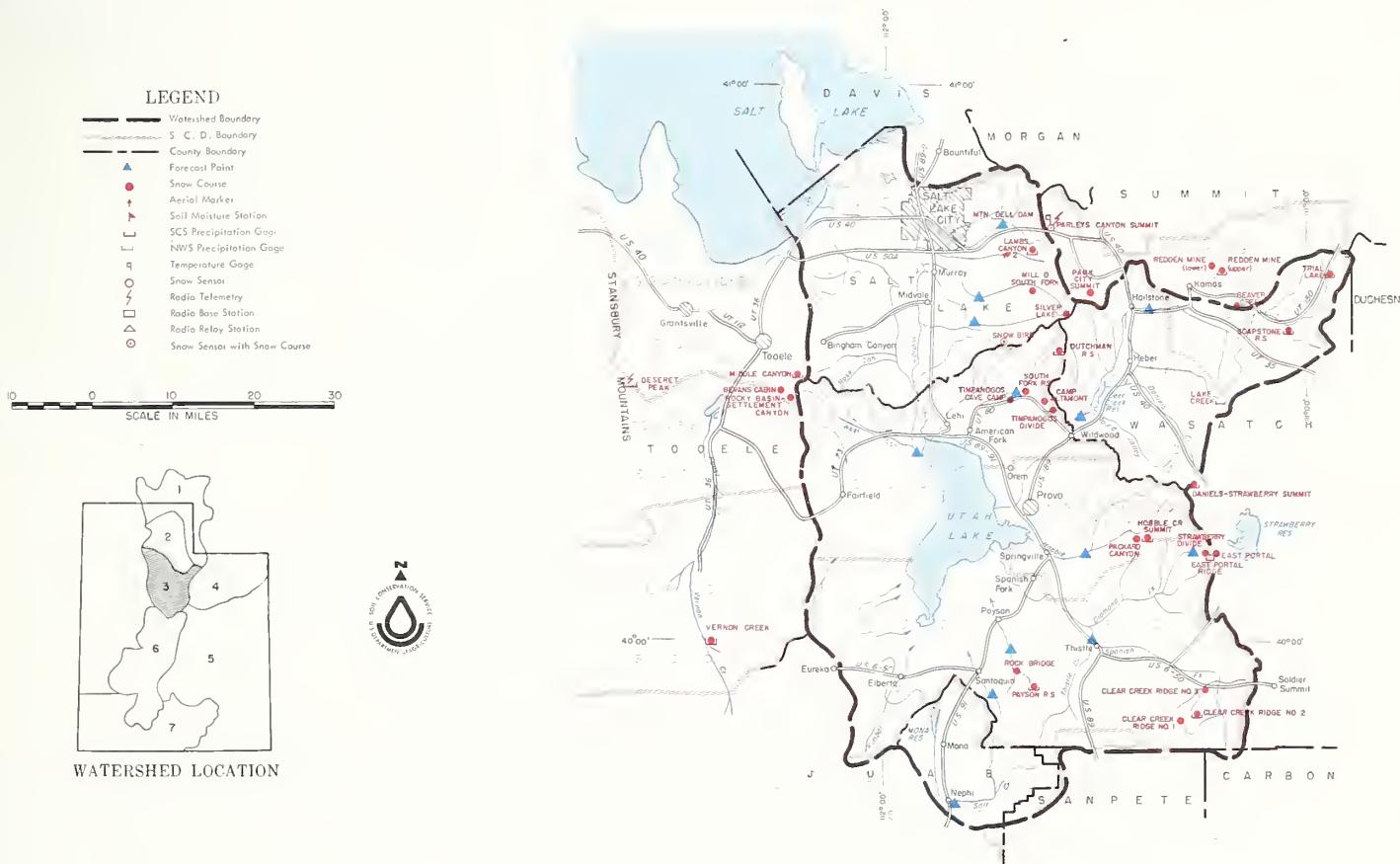
## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<b>OGDEN RIVER</b>							
Ben Lomond Peak a	8000	2/25	9.15	--	41.34	--	--
Ben Lomond (lower)	6000	2/27	6.57	4.39b	24.62	19.85*	124
Ben Lomond Trail	6000	2/27	6.34	4.41b	28.25	21.48*	132
Causey Dam	5500	2/26	2.38	1.92b	12.07	12.58*	96
Dry Bread Pond a	8230	2/26	2.85	4.47*	18.31	16.22*	113
Magpie Flat a	7600	2/25	3.16	--	17.65	--	--
Middle Fork Ogden a	8420	2/25	5.14	--	23.85	--	--
Monte Cristo #2 x	8960	2/26	3.06	4.94b	17.86	19.68	91
Sagebrush Flat	6300	2/26	2.42	2.48b	13.12	10.76	122
<b>WEBER RIVER</b>							
Chalk Creek #1 a	9100	2/25	2.55	--	21.92	--	--
Chalk Creek #2 a	7900	2/25	1.38	3.02b	--	11.82*	--
Chalk Creek #3	7500	2/23	1.16	1.82b	12.67	10.19b	124
Farmington Guard Sta.	7500	3/1	2.40*	4.69	24.48*	21.73	113
Farmington Rice	7000	3/1	2.10*	4.38	23.97*	19.73	121
Francis Canyon a	7360	2/25	2.08	--	13.30	--	--
Guilders Peak a	8000	2/25	2.82	--	17.59	--	--
Hardscrabble a	6500	2/25	4.33	--	23.63	--	--
Hoodoo Knoll a	8350	2/25	3.81	--	20.56	--	--
Horse Ridge	8260	2/28	2.76	--	17.93	--	--
Lost Creek	6125	2/28	1.65	--	11.04	--	--
Parley's Canyon Smt.	7500	2/27	3.03	3.94	19.26	15.58	124
Porcupine	8100	2/25	1.94	--	15.58	--	--
Sargent Lake a	8400	2/25	2.16	--	18.57	--	--
Silver Lake (Brighton)x	8725	3/2	4.18	3.40	25.30	19.11	132
Smith & Morehouse	7600	2/26	2.15	3.19b	16.37	12.98	126
Trial Lake x	9800	2/28	4.33	4.47b	23.24	17.36	134
Redden Mine (upper)	9000	2/27	--	--	23.47	--	--

# **WATER SUPPLY OUTLOOK**

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MARCH 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER on Utah Lake drainage is 125% of average and 11% greater than last year. Jordan River snow cover is 103% of average and 24% less than last year. Tooele Valley - Vernon snow cover is 177% of average and 68% greater than last year at low to medium elevations.

PRECIPITATION at mountain locations ranged from 77% of the February average for Parleys Summit to 196% at Timpanogos.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 105% of average on Big Cottonwood Creek to better than twice average on Vernon Creek and Settlement Canyon Creek off the west side of the Oquirrh Mountains.

MARCH 1, 1973

## STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
<b>PROVO RIVER &amp; UTAH LAKE</b>				
American Fork nr American Fork	31	118	Apr-July	26
Hobble Creek nr Springville	18	138	Apr-July	13.0
Provo nr Hailstone (1)	108	125	Apr-July	87
Provo below Deer Crk Dam (1)	125	130	Apr-July	96
Spanish Fork at Thistle	40	148	Apr-July	12.6
Strawberry Reservoir Inflow (1)	52	127	Apr-July	38
Utah Lake Inflow	241	123	Apr-July	204
<b>JORDAN RIVER &amp; SALT LAKE</b>				
Big Cottonwood nr SLC	36	105	Apr-July	40
Farmington Crk nr Farmington	7.4	109	Apr-July	6.8
Little Cottonwood Crk nr SLC	36	109	Apr-July	35
Parley's Crk nr SLC	12.5	133	Apr-July	19
<b>TOOELE VALLEY</b>				
Settlement Canyon	4.0	211	Apr-July	1.9b
Vernon Creek nr Vernon	1.5	250	Mar-JulY	0.6

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Hobble Creek near Springville	80 - 340	180
Spanish Fork near Thistle	250 - 740	307

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
Spanish Fork	Strawberry	270.0	182.0	198.2	120.0
Utah Lake	Utah Lake	883.9	786.5	829.2	558.4
Provo	Deer Creek	149.7	106.0	- -	89.3
Settlement Creek	Settlement Creek	1.2	0.8	- -	- -

(1) - Observed flow corrected for change in storage and diversions.  
x - Adjacent drainage  
b - Average of all past records within the 15-yr. period, but less than 15 years  
\* - Partly estimated

## UTAH LAKE, JORDAN RIVER AND TOOELLE VALLEY WATERSHEDS

## SNOW

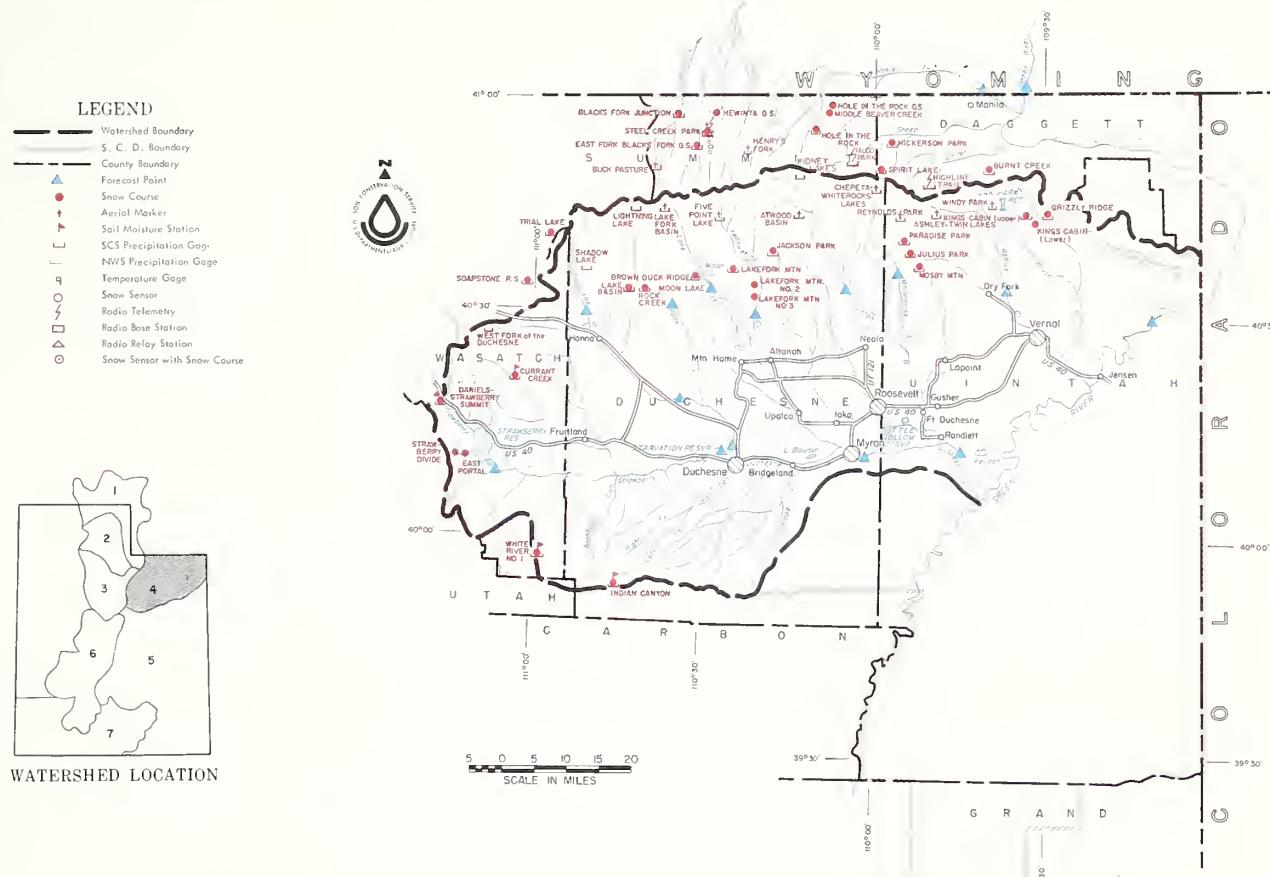
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
<u>UTAH LAKE</u>						
Beaver Creek R. S. x	7500	2/28	28	7.9	8.4	7.3
Camp Altamont	7300	3/1	51	16.6	11.1	12.1
Clear Creek Ridge #1	9200	2/26	54	17.6	16.2	14.2b
Clear Creek Ridge #2	8000	2/26	45	13.4	12.4	11.0b
Clear Creek Ridge #3	6600	2/26	31	9.1	7.4	6.2b
Daniels-Strawberry Smt.	8000	2/26	46	13.8	14.5	11.6
Dutchman R. S.	7560	2/28	56	17.5	17.1	14.8b
East Portal	7560	2/27	28	9.3	11.1	8.6
Hobble Creek Summit	7420	2/27	41	12.9	12.5	10.7b
Packard Canyon	6400	2/27	38	11.2	8.3	8.2b
Payson R. S.	8050	2/23	63	21.6	14.0	13.9b
Rock Bridge	6750	2/23	46	16.2	10.6	9.6b
Soapstone R. S.	7800	2/28	35	9.2	13.9	10.5
South Fork R. S.	6100	3/1	36	11.7	0.6	5.0
Strawberry Divide	8000	2/27	55	17.8	20.0	15.1
Timpanogos Cave Camp	5500	3/1	10	3.7	0.0	2.3
Timpanogos Divide	8140	3/1	71	23.2	22.0	19.9
Trial Lake	9800	2/28	67	19.6	27.9	20.7
<u>JORDAN RIVER &amp; TOOELLE VALLEY</u>						
Lamb's Canyon #1	6600	3/1	44	13.4	17.3	11.6
Lamb's Canyon #2	7400	3/1	44	13.0	18.1	- -
Middle Canyon - Tooele x	7000	3/2	54	19.0	12.5	10.1b
Mill D South Fork	7400	2/28	48	17.1	21.2	15.7
Parley's Canyon Smt. x	7500	2/27	51	14.9	20.2	14.2
Rocky Basin-Settlement Canyon	8900	3/7	103	37.8	22.8	- -
Silver Lake	8725	2/28	59	19.8	23.2	18.9
Snowbird (Gad Valley)	10000	3/2	86	25.8*	- -	- -
Vernon Creek	7500	3/2	46	15.6	8.1	- -



# WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MARCH 1, 1973

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is 109% of the March 1 average in Uintah Basin and 79% of a year ago. Snow cover on the north side of the Uintahs is 105% of average and 73% of last year.

PRECIPITATION at mountain locations varied from 75% of the February average on the west end of the Uintahs to 158% on the south side of the basin at Indian Canyon.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 98% of the April-July average for the Inflow to Flaming Gorge to 153% of average for the Strawberry at Duchesne.

Report prepared by  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

MARCH 1, 1973

## STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
<u>DUCESNE RIVER</u>				
Duchesne nr Tabiona (1)	115	122	Apr-July	94
Duchesne at Duchesne (1)	199	119	Apr-July	167
Duchesne at Myton (1)	280	115	Apr-July	243
Duchesne at Randlett (1)	340	130	Apr-July	262
Strawberry at Duchesne	75	153	Apr-July	49
Rock Crk nr Mtn. Home	96	109	Apr-July	88
Lakefork below Moon Lake (1)	70	106	Apr-July	66
Yellowstone nr Altonah	65	110	Apr-July	59
Uinta nr Neola	90	113	Apr-July	79
Whiterocks nr Whiterock	55	108	Apr-July	46
<u>FLAMING GORGE TO DUCESNE RIVER</u>				
Ashley Creek nr Vernal	55	125	Apr-July	44
Henry's Fork at Linwood	50	132	Apr-Sept	38
Flaming Gorge Inflow (1)	1035	98	Apr-July	1967
				1054

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Ashley Creek	900 - 1200	920
Strawberry at Duchesne	700 - 1100	558

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
Ashley Creek	Steinaker	33.3	27.3	24.2	16.8
Green River	Flaming Gorge	3749.0	2875.0	2562.0	1248.0
Lake Fork	Moon Lake	35.8	17.9	17.4	15.7
Strawberry	Starvation	165.3	129.3	129.5	- -
Uintah	Bottle Hollow	11.3	10.5	9.0	- -

(1) - Observed flow corrected for change in storage and diversions  
 b - Average for all past record within 15 year period, but less than 15 years.  
 x - Adjacent drainage  
 \* - Partly estimated

## UINTAH BASIN &amp; DAGGETT SCD's

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>UINTAH BASIN SCD</u>						
Daniels-Strawberry Smt. x	8000	2/26	46	13.8	14.5	11.6
East Portal x	7560	2/27	28	9.3	11.1	8.6
Indian Canyon	9100	2/27	44	11.2	14.4	9.3
Julius Park	9800	2/23	45	10.7	15.2	9.4b
King's Cabin (lower)	8600	2/21	37	9.3	9.8	6.8
King's Cabin (upper)	8730	2/21	42	10.7	12.6	7.9
Lakefork Mountain	10200	2/26	38	8.6	11.3	9.0
Lakefork Mountain #2	8900	2/26	29	6.0	8.7	6.4
Lakefork Mountain #3	8100	2/26	26	5.4	6.1	5.4
Mosby Mountain	9500	2/22	34	7.7	11.7	7.9
Paradise Park	10100	2/22	41	11.7	15.6	9.4
Soapstone R. S. x	7800	2/28	35	9.2	13.9	10.5
Strawberry Divide x	8000	2/27	55	17.8	20.0	15.1
Trial Lake x	9800	2.28	67	19.6	27.9	20.7
White River #1	8550	2/23	43	11.5	13.6	10.8b
<u>DAGGETT SCD</u>						
Black's Fork Jct.	8925	2/22	33	7.0	10.7	7.2b
Black's Fork G. S.-East Fork	9300	2/22	30	6.7	11.0	7.4b
Burnt Creek	7900	2/22	25	6.0	4.9	- -
Grizzly Ridge	8500	2/21	39	10.8	10.4	- -
Hewinta Guard Station	9500	2/22	32	7.3	9.6	7.0b
Hickerson Park	9100	2/22	31	8.2	6.4	- -
Spirit Lake	10300	2/22	45	12.6	14.5	9.3b
Steel Creek Park	9900	2/22	45	11.4	15.7	11.8b

"The Conservation of Water begins with the Snow Survey."



# FIRST CLASS MAIL



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Salt Lake City, Utah 84111

UNITED STATES DEPARTMENT OF AGRICULTURE

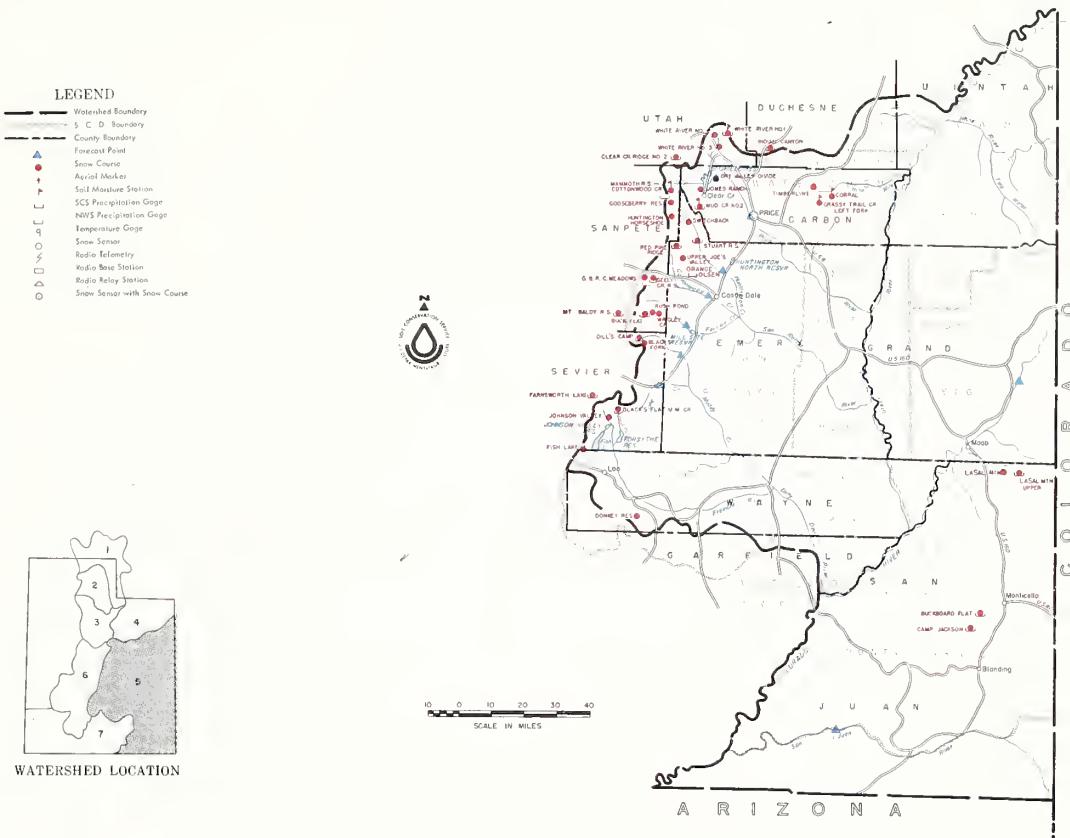
## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>UINTAH BASIN SCD</u>							
Daniels-Strawberry Smt.x	8000	2/26	3.99	2.90b	20.36	13.85b	147
East Portal Ridge x	7800	2/27	3.58	3.37	16.62	13.78*	121
Grizzly Ridge	8500	2/21	1.80	--	15.10	--	--
Indian Canyon	9100	2/27	2.42	1.53b	16.05	10.74	149
Julius Park	9800	2/23	1.87	1.76*	15.51	9.38*	165
King's Cabin (upper)	8730	2/21	--	--	13.42	7.97*	168
Lakefork Mountain	10500	2/26	1.82	2.24b	14.41	9.18	157
Moon Lake	8150	3/2	1.25	1.16	10.50	6.41	164
Paradise Park	10100	2/23	2.34	1.92	16.30	10.30	158
Soapstone R. S. x	7800	2/28	2.03	2.71b	15.71	12.13	130
Trial Lake x	9800	2/28	4.33	4.47b	23.24	17.36	134
White River #1	8600	2/23	2.07	--	12.41	10.40*	119
Mosby Mountain	9500	2/23	1.78	--	13.55	--	--
<u>DAGGETT SCD</u>							
Black's Fork Jct.	8925	2/22	--	--	--	8.00b	118
Burnt Creek	7900	2/22	0.82	--	--	--	--
East Fork Black's Fk.GS	9300	2/22	--	--	10.18	--	--
Hewinta Guard Station	9500	2/22	--	--	10.63	--	--
Hickerson Park	9100	2/22	--	--	9.93	--	--
Spirit Lake	10300	2/22	1.25	--	15.50	11.33	137
Steel Creek Park	9900	2/25	0.84	--	12.08	--	--

# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



MARCH 1, 1973

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE TO ABOVE AVERAGE

SNOW COVER ranges from 121% of the March 1 average on the San Rafael to 161% on the Fremont River. Southeastern Utah drainages on the Blue Mountains are 164% and the LaSal Mountains are 144%. Heavier than usual low elevation snow still persists in southeastern Utah.

PRECIPITATION for February varied from 55% at GBRC Meadows to 158% of average at Indian Canyon.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is near average although less than last year at this time.

STREAMFLOW FORECASTS dropped slightly from February 1 and now range from 97% of average for the Green at Green River to 139% for the Price at Heiner for the April-July period. San Juan near Bluff 133% and the Colorado at Cisco 114%.

Report prepared by  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

MARCH 1, 1973

## STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year
<b>PRICE RIVER</b>				
Gooseberry Crk nr Scofield	13.2	132	Apr-July	10.0
Price nr Heiner (1)	75	139	Apr-July	54
Scofield Reservoir Inflow (1)	43	136	Apr-July	19.0
<b>SAN RAFAEL RIVER</b>				
Cottonwood Crk nr Orangeville	50	114	Apr-July	33
Ferron Crk nr Ferron	40	121	Apr-July	33
Huntington Crk nr Huntington	48	114	Apr-July	42
<b>MUDY RIVER</b>				
Muddy Creek nr Emery	17.6	108	Apr-July	16.2b
<b>UPPER COLORADO BASIN</b>				
Colorado nr Cisco, Utah	3196	114	Apr-July	1594
Green at Green River, Utah	2488	97	Apr-July	2030
Navajo Reservoir Inflow	800	129	Apr-July	259
San Juan nr Bluff, Utah	1185	133	Apr-July	276
Mill Creek nr Moab	8.5	173	Apr-July	- -
<b>FREMONT RIVER</b>				
Seven Mile Crk. nr Fish Lake	7.5	121	Apr-July	6.2b

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Ferron Creek near Ferron	375 - 600	414
Muddy Creek near Emery	100 - 212	142

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
Price River	Scofield	65.8	23.2	41.5	21.5
San Rafael	Huntington North	3.9	3.2	- -	- -
	Joe's Valley	54.6	36.1	39.1	- -
	Mill Site	16.7	4.1	4.5	- -
San Juan	Navajo	1696.4	888.2	875.1	- -

(1) - Observed flow corrected for change in storage and diversions.  
 b - Average for all past record within 15-yr period, but less than 15 yrs.  
 x - Adjacent drainage  
 \* - Partly estimated

## CARBON, EMERY, WAYNE, GRAND &amp; SAN JUAN COUNTIES

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>PRICE RIVER</u>						
Dry Valley Divide	7800	3/1	37	10.5	11.4	8.7
Gooseberry Reservoir	8700	2/26	54	19.6	16.4	14.4b
Indian Canyon x	9100	2/27	44	11.2	10.3	9.3
Jones Ranch	7600	3/1	27	7.4	6.4	5.8
Mammoth R. S.-Ctnwood Crk. x	8800	2/26	55	18.9	19.0	14.5b
Mud Creek #2	8300	3/1	43	12.4	11.1	10.4*
White River #1	8550	2/23	43	11.5	13.8	10.8b
White River #2	7600	2/23	32	7.6	9.0	7.5b
White River #3	7400	2/23	32	8.6	6.4	7.1b
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	3/1	47	13.8	17.1	12.7b
Gooseberry Reservoir	8700	2/26	54	19.6	16.4	14.4b
Mammoth R. S.-Ctnwood Crk. x	8800	2/26	55	18.9	19.0	14.5b
Red Pine Ridge	9400	2/26	47	13.7	14.9	13.8b
Rush Pond	9800	3/1	45	12.7	13.1	11.4b
Seely Creek R. S.	10000	2/28	54	18.9	13.2	12.0
Upper Joe's Valley	8900	2/26	34	8.6	8.6	8.2b
Wrigley Creek	9000	3/1	40	10.2	10.8	9.0b
<u>MUDDY RIVER</u>						
Black's Fork	9200	3/2	44	12.1	12.2	- -
Dills Camp	9200	3/2	42	11.2	11.6	- -
Mt. Baldy R. S. x	9500	2/23	64	21.2	20.8	17.3
<u>FREMONT RIVER</u>						
Black's Flat-U. M. Crk.	9250	2/22	42	11.2	9.3	7.7b
Farnsworth Lake x	9900	2/27	54	19.6	18.1	13.4b
Fish Lake	8700	2/22	36	10.0	3.9	4.7b
Johnson Valley	8850	2/22	33	8.5	2.8	4.9b
<u>SOUTHEASTERN UTAH DRAINAGES</u>						
Buckboard Flat	9000	2/20	48	14.8	9.7	9.8b
Camp Jackson	8600	2/20	51	16.4	9.0	9.2b
LaSal Mountain (lower)	8800	2/21	37	10.7	7.6	7.2
LaSal Mountain (upper)	9400	2/21	50	16.0	12.6	11.3b
Monticello City Park		2/20	16	5.1	- -	- -

# FIRST GLASS MAIL



U. S. DEPARTMENT OF  
POSTAGE AND FEES PAID

AGRICULTURE

FEDERAL - STATE - PRIVATE  
COOPERATIVE SNOW SURVEYS

PENALTY FOR PRIVATE USE, \$300  
OFFICIAL BUSINESS

Salt Lake City, Utah 84111

Federal Bldg. - Room 4012  
SOIL CONSERVATION SERVICE  
ED STATES DEPARTMENT OF AGRICULTURE

WATER IS THE WEST'S GREATEST RESOURCE.  
mining and industry,  
geocaching, navigation,  
supply, hydroelectric power  
domestic and municipal water  
water supply for irrigation,  
provides the basic data  
necessary for forecasting

COOPERATIVE SNOW SURVEYS

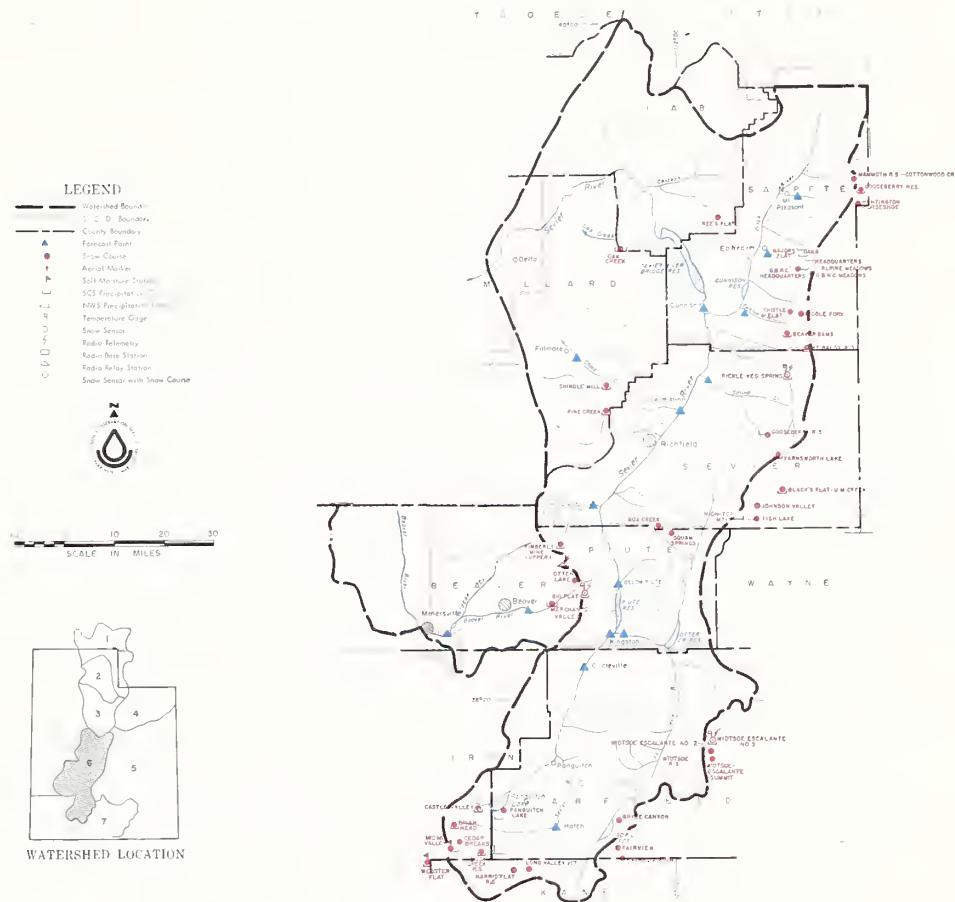
## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>PRICE RIVER</u>							
Clear Creek Ridge #2 x	8000	2/26	2.48	2.62b	16.13	11.59*	139
Gooseberry Reservoir	8700	2/26	3.80	3.39b	20.40	13.83	148
Indian Canyon	9100	2/27	2.42	1.53b	16.05	10.74	149
Mammoth R. S. #2	8600	2/26	3.90	3.05b	20.60	14.40	143
Mud Creek	8300	3/1	2.98	2.42*	16.44	11.31	145
White River #1	8600	2/23	2.07	- -	12.41	10.46*	119
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	3/1	3.10	3.41b	17.35	12.46*	139
G.B.R.C. Meadows x	10000	2/28	2.40	4.37	16.60	16.41	101
Gooseberry Reservoir x	8700	2/26	3.80	3.39b	20.40	13.83	148
Orange Olsen	7300	2/26	1.30	- -	9.20	- -	- -
Red Pine Ridge	9400	2/26	2.90	4.65b	19.10	15.15*	126
Dills Camp	9200	3/2	4.60	- -	14.90	- -	- -
<u>FREMONT RIVER</u>							
Black's Flat-U.M. Creek	9250	2/22	2.02	- -	12.92	8.93*	145
Farnsworth Lake x	9900	2/27	2.40	3.75b	19.89	13.52b	147
Fish Lake	8700	2/22	1.05	- -	10.47	6.38b	164
<u>SOUTHEASTERN UTAH DRAINAGES</u>							
Buckboard Flat	9000	2/20	- -	- -	33.64	14.04b	240
Camp Jackson	8600	2/20	- -	2.19*	31.00	11.66	266
LaSal Mountain (upper)	9600	2/21	- -	- -	20.23	- -	- -

# WATER SUPPLY OUTLOOK

## SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MARCH 1, 1973

### THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER is 174% of the March 1 average on the Upper Sevier and 142% of average on the Lower Sevier. Beaver River snow cover is 144% of average and 142% of last March. Widtsoe #3 water content set a new record for March 1 as did Pine Creek and Shingle Mill above Fillmore.

PRECIPITATION during February ranged from 40% of average at GBRC Oaks to 148% of average at Duck Creek R.S. Soil Moisture is above average.

RESERVOIR STORAGE is above average on the Sevier and near average on the Beaver River.

STREAMFLOW FORECASTS range from 128% of the April-June Inflow to Minersville Reservoir to better than double the average on the East Fork Sevier and Salina Creek. Winter flow into Sevier Bridge Reservoir is expected to total 75,000 - 85,000 acre feet from October 1 through March 31 and all primary rights are expected to have above average deliveries this season if at least average temperature and precipitation continues through the run-off season. Beaver River is forecast at 138% of the April-July average.

Report prepared by  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

MARCH 1, 1973

## STREAMFLOW FORECASTS

BASIN STREAM and or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year
<b>SEVIER RIVER</b>				
Chalk Creek nr Fillmore	22	167	Apr-July	13.2
Clear Crk nr Sevier (above Div.)	18.0	144	Apr-July	12.5b
East Fork Sevier nr Kingston (1)	30	256	Apr-July	11.7
Antimony Crk nr Antimony	9.8	166	Apr-July	7.8b
Inflow				
Kingston to Vermillion Dam	49	163	Apr-June	30 b
Vermillion Dam to Gunnison	57	127	Mar-June	45 b
Salina Crk at Salina (1)	13.6	230	Apr-June	5.9*
Sevier nr Circleville	50	185	Apr-July	27
Sevier nr Gunnison	51	165	Apr-July	31 b
Sevier at Hatch	54	165	Apr-July	33
Sevier nr Kingston	30	195	Apr-July	15.4
Sevier below Piute Dam (1)	56	193	Apr-July	29
<b>SAN PITCH RIVER</b>				
Ephraim Creek nr Ephraim	18.5	133	Apr-July	13.9b
Pleasant Crk nr Mt. Pleasant	10.5	135	Apr-July	7.8b
<b>BEAVER RIVER</b>				
Beaver nr Beaver	26	138	Apr-July	6.4
Minersville Reservoir Inflow (1)	6.0	128	Apr-June	18.9 4.7

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier (above div.)	5	July 25	July 19
Salina Creek at Salina	25	June 14	June 10
Sevier at Circleville(Circle Valley)	90	July 6	June 24
Sevier at Hatch (upper)	100	July 24	July 10

## PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period +	Forecast Period
<b>Sevier River</b>			
Below Vermillion Dam	65	58	Apr-Sept
Circle Valley	90	66	Apr-Sept
Panguitch Valley	100	84	Apr-Sept
Sevier Valley	50	40	Apr-Sept

## OTHER SPECIAL FORECASTS

Below Vermillion - Flow above 360 second feet should total about 4000 - 4500 acre feet.

Inflow to Sevier Bridge Reservoir from October 1 to March 31 is expected to be 75,000 - 85,000 acre feet.

- - - - -
- (1) - Observed flow corrected for change in storage and diversions  
 b - Average for all past record within 15-yr period, but less than 15 years.  
 \* - Partly estimated

x - Adjacent drainage

SEVIER RIVER BASIN INCLUDING BEAVER RIVER

**SNOW**

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<b>UPPER SEVIER RIVER</b> <u>(South of Richfield, Utah)</u>						
Box Creek	9800	2/23	46	12.6	10.1	9.4b
Bryce Canyon	8000	2/26	31	8.6	2.0	2.4b
Castle Valley	9700	3/1	56	14.7	13.1	9.8b
Duck Creek R. S.	8700	2/27	54	16.0	11.8	10.2
Farview	8200	2/26	37	11.8	5.1	- -
Fish Lake x	8700	2/22	36	10.0	6.8	4.7b
Harris Flat	7700	2/27	44	12.7	2.6	6.1
Kimberly Mine	9300	2/22	52	16.2	11.4	10.8b
Long Valley Jct. x	7500	2/27	36	10.9	0.0	2.2
Midway Valley	9800	2/27	75	24.6	20.9	16.5b
Panguitch Lake	8200	3/1	27	6.3	3.4	3.1
Squaw Springs	9300	2/23	34	8.5	6.3	5.3b
Widtsoe-Escalante Smt.	9500	2/28	34	9.8	5.4	5.3
Widtsoe-Escalante #2	9500	2/28	41	10.9	7.8	6.8
Widtsoe-Escalante #3	9500	2/28	48	13.5	10.7	8.1b
<b>LOWER SEVIER RIVER</b> <u>(Including San Pitch River)</u>						
Beaver Dams	8000	2/23	35	11.6	7.9	9.6
Farnsworth Lake	9900	2/27	54	19.6	16.4	13.4b
G.B.R.C. Headquarters	8700	2/28	47	17.3	11.9	12.7
G.B.R.C. Meadows	10000	2/28	62	22.1	18.7	18.7
Gooseberry R. S.	8400	2/27	39	13.4	8.8	8.8
Gooseberry Reservoir x	8700	2/26	54	19.6	15.3	14.4b
Mammoth R. S.-Ctnwood Crk.	8800	2/26	55	18.9	16.2	14.5b
Mt. Baldy R. S.	9500	2/23	64	21.2	18.5	17.3
Pine Creek	8700	2/26	60	22.3	11.4	12.1b
Rees's Flat	7300	2/22	45	13.6	9.1	8.9b
Shingle Mill	6200	2/26	43	14.5	7.6	6.5b
<b>BEAVER RIVER</b>						
Beaver R. T.	6020	2/27	7	2.5	- -	- -
Big Flat	10290	2/23	62	17.8	13.1	13.0
Merchant's Valley	8200	2/22	39	10.5	6.0	6.9
Otter Lake	9300	2/23	55	15.5	11.8	10.6

**RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH**

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
<u>Sevier River</u>	Gunnison	18.2	10.1	18.2	- -
	Otter Creek	52.5	28.2	35.0	23.0
	Piute	71.8	46.5	61.0	35.4
	Sevier Bridge	236.0	128.8	173.6	80.7
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	10.5	15.4	10.6



# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

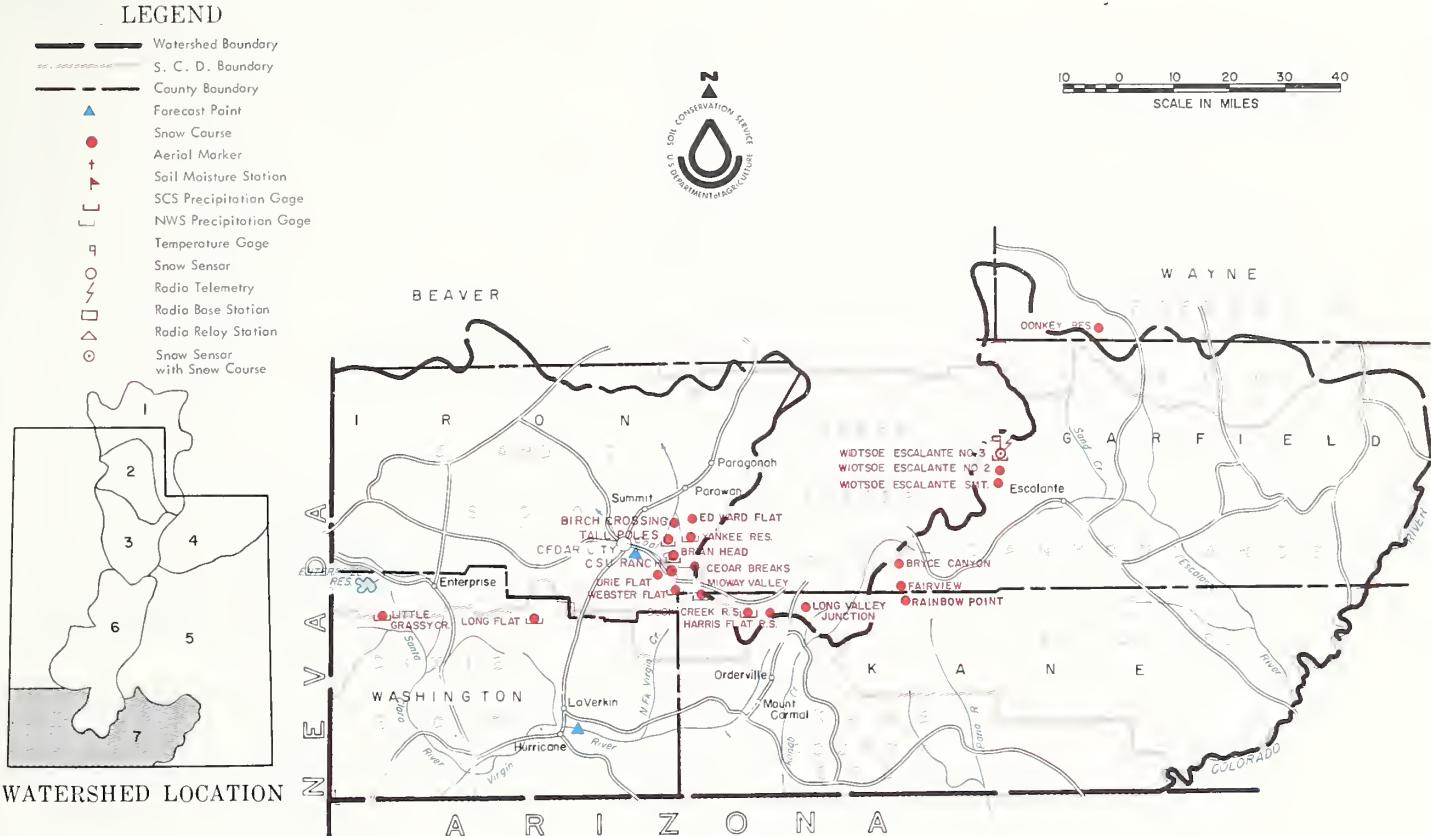
**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**

### LEGEND

- Watershed Boundary
- S. C. D. Boundary
- County Boundary
- Forecast Point
- Snow Course
- Aerial Marker
- Soil Moisture Station
- SCS Precipitation Gage
- NWS Precipitation Gage
- Temperature Gage
- Snow Sensor
- Radio Telemetry
- Radio Base Station
- Radio Relay Station
- Snow Sensor with Snow Course



10 0 10 20 30 40  
SCALE IN MILES



MARCH 1, 1973

### THE WATER SUPPLY OUTLOOK IS EXCELLENT

**SNOW COVER** is 170 to better than 350% of the March 1 average. The following snow courses set a new March 1 record for water content: Long Flat, Ed Ward Flat, Yankee Reservoir and Widtsoe #3. Low and medium elevations have a much heavier than usual snow pack.

**PRECIPITATION** at mountain stations on the Virgin and Coal Creek was about one and a half times average for February. The upper Escalante had slightly less than average. Enterprise-New Harmony area had very heavy precipitation at higher elevations. Soil moisture is above average.

**RESERVOIR STORAGE** in Lake Powell is now 49% of useable capacity and about 7% below last March 1.

**STREAMFLOW FORECASTS** range from 184% on the Virgin River and Coal Creek to 242% of the April-June average on the Santa Clara River. Much heavier than usual runoff is expected into Enterprise Reservoir. Very heavy medium to low elevation snow is expected to produce higher than average peak flows in this area of the state.

Report prepared by  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

MARCH 1, 1973

## STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average +
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	70	184	Apr-June	38	
Santa Clara nr Pine Valley	8.0	242	Apr-June	3.3b	
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	25	184	Apr-July	13.8	
<u>UPPER COLORADO</u>					
Lake Powell Inflow	7180	110	Apr-July	5578	6527

WSFB-X11-L

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Coal Creek	350 - 620	217
Virgin River	990 - 1480	557

WSFB-X2-L

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
<u>Colorado</u>	Lake Powell	25002.0	12217.0	13112.0	5138.0
 b - Average for all past record within 15 year period, but less than 15 years					
x - Adjacent drainage					
* - Partly estimated					

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>ESCALANTE RIVER</u>						
Widtsoe-Escalante Smt.	9500	2/28	34	9.8	5.4	5.3
Widtsoe-Escalante #2	9500	2/28	41	10.9	7.8	6.8
Widtsoe-Escalante #3	9500	2/28	48	13.5	10.7	8.1b
<u>PARIA RIVER</u>						
Bryce Canyon x	8000	2/26	31	8.6	2.0	2.4b
Rainbow Point x	9100	2/26	34	10.9	4.5	- -
<u>VIRGIN RIVER &amp; COAL CREEK</u>						
CSU Ranch	8200	2/27	36	11.3	5.8	- -
Duck Creek R. S.	8700	2/27	54	16.0	11.8	10.2
Harris Flat x	7700	2/27	44	12.7	2.6	6.1
Long Valley Jct.	7500	2/27	36	10.9	0.0	2.2
Midway Valley x	9800	2/27	75	24.6	20.9	16.5b
Urie Flat	8450	2/27	32	10.9	6.2	5.6b
Webster Flat	9200	2/27	60	19.1	15.1	12.2
<u>PAROWAN CREEK</u>						
Birch Crossing	8100	2/26	28	8.7	5.7	- -
Brian Head	10000	2/26	58	19.1	18.9	- -
Ed Ward Flat	8300	2/26	34	10.1	6.9	5.3b
Tall Poles	8800	2/26	45	14.8	13.2	- -
Yankee Reservoir	8700	2/26	39	11.9	9.2	6.9b
<u>ENTERPRISE TO NEW HARMONY DRAINAGES</u>						
Little Grassy Creek	6100	2/28	37	12.7	0.0	2.3b
Long Flat	8000	3/1	41	12.9	2.1	4.3b

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UNITED STATES DEPARTMENT OF AGRICULTURE

## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	2/28	2.00	2.30b	17.68	9.95	178
<u>VIRGIN RIVER</u>							
Duck Creek R. S.	8560	2/27	4.86	3.27b	24.17	13.45*	180
Webster Flat	9200	2/27	5.35	3.53b	20.83	14.82*	140
<u>COAL CREEK</u>							
Webster Flat	9200	2/27	5.35	3.53b	20.83	14.82*	140
<u>PAROWAN CREEK</u>							
Tall Poles	8800	2/26	1.90	--	17.40	--	--
Yankee Reservoir	8700	2/26	--	2.13b	15.55	8.49	183
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>							
Little Grassy Creek	6100	2/28	5.25	--	20.85	--	--
Long Flat	8000	3/1	3.70	--	19.70	8.91	221

# Agencies Cooperating in Utah Snow Surveys

## U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture  
Soil Conservation Service  
Forest Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## STATE AGENCIES

Utah State University  
Utah Fish and Game Department  
Utah State Department of Natural  
Resources, Division of Water Rights  
Bear River Commissioner  
Price River Commissioner  
Provo River Commissioner  
Sevier River Commissioners  
Spanish Fork River Commissioner  
Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

Manti  
Salt Lake City

## ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association  
Board of Canal Presidents - Jordan River  
Emery Canal and Reservoir Company  
Moon Lake Water Users Association  
Ogden River Water Users Association  
Provo River Water Users Association  
Strawberry Water Users Association  
Sevier River Water Users Association

## PRIVATE AGENCIES

Kaiser Steel Corporation



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